

ABSTRAK

Putri Pameswari, NIM 4182220026 (2018). Uji Toksisitas Limbah Cair Serai Wangi (*Cymbopogon nardus* L.) Terhadap Larva Instar III Nyamuk *Aedes aegypti*.

Penelitian ini bertujuan untuk mengetahui nilai *Lethal Concentration* 50 (LC₅₀) dari limbah cair Serai Wangi (*C. nardus* L.) yang dapat membunuh larva instar III nyamuk *A. aegypti* selama 24 jam. Sebanyak 10 larva nyamuk *A. aegypti* instar III digunakan untuk masing-masing konsentrasi yang berbeda yaitu 6,9%, 7,6%, 8,2%, 9% dan 9,8%. Masing-masing konsentrasi terdiri dari lima kali pengulangan dan diamati selama 24 jam. Setelah 24 Jam, larva yang mengalami kematian dianalisis menggunakan analisis probit melalui SPSS 25. Hasil menunjukkan bahwa nilai LC₅₀ limbah cair Serai Wangi (*C. nardus* L.) yang dapat membunuh larva selama 24 jam adalah sebesar 8,763%.

Kata kunci: Limbah cair Serai Wangi (*C. nardus* L.), larva instar III nyamuk *A. aegypti*, *Lethal Concentration* 50 (LC₅₀).



ABSTRACT

Putri Pameswari, NIM 4182220026 (2018). Toxicity Test of Serai Wangi (*Cymbopogon nardus* L.) Liquid Waste Againsts the Third Instar Larvae of *Aedes aegypti*.

This study aims to determine the value of *Lethal Concentration* 50 (LC₅₀) from the liquid waste of Serai Wangi (*C. nardus* L.) which can kill the third instar larvae of *A. aegypti* mosquitoes for 24 hours. A total of 10 mosquito larvae of *A. aegypti* instar III were used for each different concentration of 6,9%, 7,6%, 8,2%, 9% dan 9,8%. Each concentration consisted of five repetitions and was observed for 24 hours. After 24 hours, larvae that died were analyzed using probit analysis via SPSS 25. The results showed that the LC₅₀ of liquid waste Serai Wangi (*C. nardus* L.) can kill larvae for 24 hours was 8,763%.

Keywords: Serai Wangi (*C. nardus* L.) liquid waste, the third instar larvae of *A. aegypti*, *Lethal Concentration* 50 (LC₅₀).

